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About three-fourths of the rats are brought in by the bounty men. Over half of all rats are from the water front. Most of the others are from the business section and very few are brought from the residence districts. The location where the rats were obtained is determined with as much accuracy as possible, but often, especially in the case of water-front rats, the information on this point is not very precise.

Most of the rats belong to the species *Mus decumanus*, though a few of the species *Mus rattus* are received. No systematic effort is made to obtain mice (*Mus musculus*), though a few are brought in occasionally upon special request.

From time to time rats brought in alive are searched for fleas. The flea count during the month has been found subject to great variation, due to factors not definitely determined. Some lots average less than a flea to a rat, while the highest count was 68 fleas from one lot of 8 rats. Thirty-five rats searched during the month have yielded 127 fleas. No fleas have been found upon mice (*Mus musculus*), though several lots have been searched.

During the month of March, 18 ships were fumigated for the destruction of rats.

During the month a change was made in the municipal health department. A commissioner of health was appointed March 23 to supersede the former board of health. The new commissioner now has charge of all the departments of public health and can use all of them to assist in the plague prophylactic work. He desires the assistance and support of the Service officers here and expressed his appreciation of the work done by the laboratory. I have assured him that the officers here will support and assist him in this work.

Week ended April 11:

Rats received .....	956
Rats necropsied .....	877
Rats found plague infected.....	2
Date of finding of last plague rat.....	March 30, 1908
Plague-infected rats to date .....	8
Vessels fumigated .....	5

#### STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES—UNTABULATED.

**CALIFORNIA—Oakland.**—Month of March, 1908. Estimated population, 225,000. Total number of deaths not reported. Four deaths from enteric fever and 9 from tuberculosis. Cases: Diphtheria 12, enteric fever 4, scarlet fever 5, smallpox 9, measles 16, whooping cough 3, and tuberculosis 2.

**San Diego.**—Month of March, 1908. Estimated population, 40,000. Total number of deaths, 84, including diphtheria 1, enteric fever 1, and 17 from tuberculosis. Cases: Diphtheria 1, enteric fever 1, scarlet fever 8, and measles 1.

**San Jose.**—Month of March, 1908. Estimated population, 34,000. Total number of deaths, 35, including measles 1, and 1 from enteric fever. Cases: Diphtheria 4, enteric fever 4, scarlet fever 10, measles 18, and smallpox 52.

*Stockton.*—Month of December,<sup>a</sup> 1907. Estimated population, 23,000. Total number of deaths not reported. Four cases and 4 deaths from tuberculosis reported.

Month of January,<sup>a</sup> 1908. Total number of deaths, 27, including 1 from tuberculosis. Cases: Tuberculosis 1.

Month of March, 1908. Total number of deaths, 26, including diphtheria 1, and 5 from tuberculosis. Cases: Diphtheria 5, scarlet fever 2, and smallpox 1.

COLORADO—*Colorado Springs.*—Month of November, 1907. Estimated population, 32,000. Total number of deaths, 37, including 13 from tuberculosis. Cases: Enteric fever 2, and scarlet fever 12.

Month of December, 1907. Total number of deaths, 51, including scarlet fever 1, and 15 from tuberculosis. Cases: Scarlet fever 21, and smallpox 3.

Month of January, 1908. Total number of deaths, 48, including diphtheria 1, scarlet fever 2, and 17 from tuberculosis. Cases: Diphtheria 3, scarlet fever 26, and smallpox 10.

CONNECTICUT.—Month of March, 1908. Reports to the State board of health from 162 towns, having an aggregate population of 1,013,456, show as follows: Total number of deaths from all causes, 1,440, including diphtheria 11, enteric fever 13, measles 11, scarlet fever 7, whooping cough 6, and 119 from phthisis pulmonalis. Cases: Diphtheria, 127 in 41 towns; enteric fever, 30 in 13 towns; measles, 405 in 52 towns; scarlet fever, 226 in 46 towns; whooping cough, 34 in 10 towns; phthisis pulmonalis, 92 in 24 towns.

*Bridgport.*—Month of March, 1908. Estimated population, 100,000. Total number of deaths, 103, including scarlet fever 1, measles 1, and 13 from tuberculosis. Cases: Diphtheria 8, enteric fever 4, measles 3, scarlet fever 7, whooping cough 2, and phthisis pulmonalis 13.

*New London.*—Month of March, 1908. Estimated population, 20,200. Total number of deaths, 39, including scarlet fever 1, and 2 from tuberculosis. Cases: Measles 4, and scarlet fever 15.

IOWA—*Davenport.*—Month of March, 1908. Estimated population, 40,000. Total number of deaths not reported. Two deaths from diphtheria and 1 from scarlet fever. Cases: Diphtheria 8, scarlet fever 3, measles 4, smallpox 11, whooping cough 15, and tuberculosis 1.

KANSAS.—Month of February, 1908. Reports to the State board of health show as follows: Diphtheria, 103 cases, 12 deaths; enteric fever, 54 cases, 11 deaths; measles, 385 cases, 2 deaths; scarlet fever, 190 cases, 5 deaths; smallpox, 629 cases, no deaths; tuberculosis, 90 cases, 68 deaths.

KENTUCKY—*Henderson.*—Month of March, 1908. Estimated population, 17,500. Total number of deaths, 26, including diphtheria 1

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<sup>a</sup> Received out of regular order.

and 4 from tuberculosis. Cases: Enteric fever 9, diphtheria 2, whooping cough 1, and tuberculosis 9.

NEBRASKA—*Lincoln*.—Month of January, 1908. Estimated population, 60,000. Total number of deaths, 51, including diphtheria 2, enteric fever 1, and 1 from tuberculosis. Cases: Diphtheria 3, scarlet fever 8, smallpox 10.

Month of February, 1908. Total number of deaths, 40, including diphtheria 1, scarlet fever 1, and 2 from tuberculosis. Cases: Measles 1, scarlet fever 10, smallpox 18.

NORTH CAROLINA.—Month of January, 1908. Estimated population, 1,893,810. Reports of State board of health from 75 counties show as follows: Measles in 32 counties, whooping cough in 26 counties, scarlet fever in 20 counties, diphtheria in 19 counties, enteric fever in 29 counties, malarial fever in 1 county, and smallpox in 23 counties, viz: Alamance, 30; Alleghany, 3; Ashe, 1; Bertie, 2; Cabarrus, 20; Camden, 11; Chowan, 2; Columbus, 1; Davie, 15; Durham, 1; Edgecombe, 2; Forsyth, 16; Gaston, 1; Guilford, 63; Johnston, 4; Madison, 1; Mecklenburg, 2; New Hanover, 2; Pender, 1; Randolph, 12; Robeson, 1; Rowan, 4, and Yancy, 1.

Reports for the month from 21 towns having an aggregate population of 204,900—white, 146,000; colored, 76,900—show a total of 320 deaths—white, 145; colored, 175—including enteric fever 2, malarial fever 1, diphtheria 2, whooping cough 3, and 40 from phthisis pulmonalis.

OREGON.—Month of January, 1908. Reports to the State board of health from 33 counties show as follows: Total number of deaths, 442, including diphtheria 8, enteric fever 15, measles 1, and 29 from tuberculosis. Cases: Diphtheria 90, enteric fever 78, measles 68, scarlet fever 47, smallpox 48, and tuberculosis 10.

Month of February, 1908. Total number of deaths, 465, including diphtheria 5, enteric fever 8, scarlet fever 1, and 45 from tuberculosis. Cases: Diphtheria 68, enteric fever 32, measles 33, scarlet fever 37, smallpox 90, and tuberculosis 10.

PENNSYLVANIA—*New Castle*.—Month of February,<sup>a</sup> 1908. Estimated population, 38,000. Total number of deaths, 51, including enteric fever 2, diphtheria 1, and 2 from tuberculosis. Cases: Diphtheria 10, enteric fever 17, measles 24, tuberculosis 4, and whooping cough 9.

UTAH—*Salt Lake City*.—Month of March, 1908. Estimated population, 85,000. Total number of deaths from all causes, 115, including diphtheria 1, enteric fever 1, and 9 from tuberculosis. Cases: Diphtheria 13, whooping cough 3, measles 28, scarlet fever 83, smallpox 2, and phthisis pulmonalis 2.

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<sup>a</sup> Received out of regular order.